



System for assembly support

Vario Grid® ENTATION

Relax, take it easy - your assemblies

are in good hands with VarioGrid®

The quality of paste volume consistency and repeatability are important requirements within the printing process of electronic manufacturing. Various methods of assembly supports are used to prevent bowing or bending during the printing process. Increasing miniaturization and density of components make it even more difficult to find suitable locations for manual placement of conventional support tools.





The implementation of the innovative VarioGrid® assembly support system eliminates programming time from individual tooling set-up in printing and placement applications and therefore minimizes common machine down time. The VarioGrid® support system will also eliminate rework due to misplacement of conventional support tools. This results in increased quality as well as throughput and productivity, thus leading to higher cost efficiency for each SMT production line.

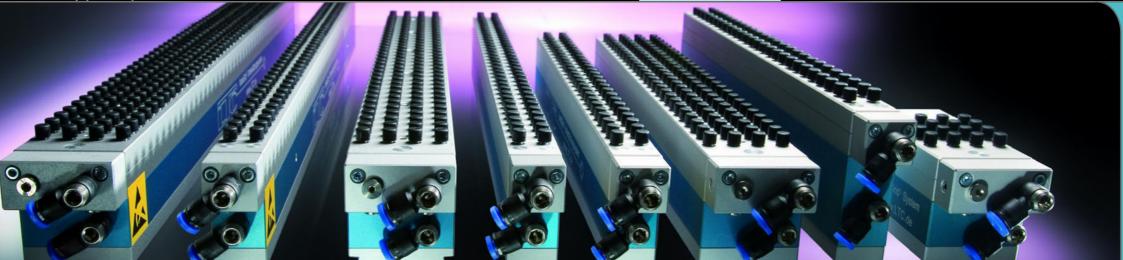
Modul range

Vario Grid® MENTAT

produced by

Never move another support pin.





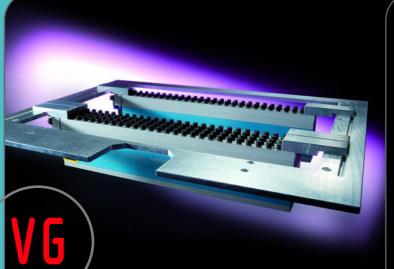
Bring your SMT production line up to record levels with the VarioGrid® assembly support system. This innovative and patented system features unique modular grids of air suspension support pins with ESD-safe pin tops which automatically conform to the underside of each electronic assembly. We offer seven different module sizes with fully automatic activation to support even the most sophisticated electronic assemblies. All available system modules feature a support pin pitch of 11mm, the highest density worldwide.

Much better and even support of all assemblies Flexible and modular system Integration into pick and place systems.

Your production yield will set new standards with shortest line changeover.

Adapter frame

The VarioGrid® assembly support system is not limited to be used only in automatic screen print systems, but also suitable for placement systems and other applications. Increasing miniaturization and density of components on both sides of electronic assemblies require the use of accurate, high speed and very flexible pick and place systems. For this process it is also absolutely necessary to provide good support to prevent vibrations which could result in lost or misplaced components thus leading to more cost due to rework and/or other quality issues. We have already implemented the VarioGrid® assembly support system into SiPlace, Dima, Assembleon, Europlacer and Universal systems.



Vario Grid ® blackline A





VarioGrid®

Our standard: record levels.

The innovative VarioGrid® assembly support system offers sensational support for electronic assemblies during the first and therefore most critical processes in SMT production lines. The patented system features unique modular grids of air suspension support pins with ESDsafe pin tops. They produce unsurpassed while gentle support of the entire PCB assembly and therefore results in higher quality and yield. VarioGrid® will minimize costly machine down time and increases throughput and productivity which leads to higher cost efficiency.



Multiple distributor

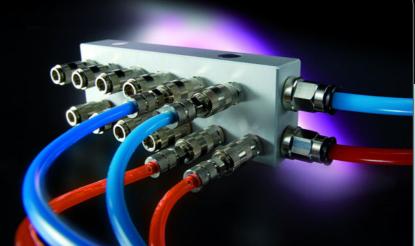
Vario Grid Accessories

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|Control unit

outor





Simple and easy to use system. Maintenance free operation. Fast return of investment.

With the VarioGrid® system only minimal operator training is required. After the board has been locked in place, the operator simply enables the pin lift and then the pin clamp and the system is ready for production. With this the set up is completed and needs to be repeated once another product changeover takes place. Or use the optional automatic mode and the VarioGrid® system sets and resets for each individual assembly which is handled by the transport unit. The technical realization of this system complies with the valid ESD standards DIN IEC 61340-5-1 and DIN IEC 61340-5-2 (previously DIN EN 100015).

Vario Grid Accessories



Precision build-up





Always on top of things. We offer a large variety of precision build-up to implement the VarioGrid® assembly support system into all different automatic platforms, i.e. screen printers, pick & place- and dispense systems.

Download technical data www.ltc.de

Simple and intelligent solutions.

You have pin-in-paste applications: use this tool to partly cover the support area during the printing or pick and place process.

Pin-cover





Our innovation potential has no limits.



Continuous and intense developments and improvements of the LTC product range illustrates our competence as a service provider and demonstrates our ability as a partner to the industry. LTC sets industrial trends with their powerful product range covering stencils, QUATTRO-FLEX® self tensioning frames, VarioGrid® assembly support systems and last but not least stencil archiving systems. We invite you to test our quality products and our outstanding customer services.

DOCUMENTATION (1

Overview product range





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Vario Grid®

System for assembly support











